

October 28, 2004

Mr. William A. Eaton, Vice President
System Energy Resources, Inc.
Entergy Operations, M-ECH-38
1340 Echelon Parkway
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SUBJECT: SECOND SUPPLEMENTAL REQUEST FOR ADDITIONAL INFORMATION
(RAI) REGARDING THE ENVIRONMENTAL PORTION OF THE EARLY SITE
PERMIT APPLICATION BY SYSTEM ENERGY RESOURCES, INC. (SERI) FOR
THE GRAND GULF ESP SITE (TAC NO. MC1379)

Dear Mr. Eaton:

As a result of the staff's continuing review of the environmental portion of the application by SERI for an early site permit for the Grand Gulf site, the staff has identified areas where additional information is needed to complete its review. Specifically, the staff has identified the need for additional information regarding the uranium fuel cycle environmental data as required by 10 CFR 51.51(a). Enclosed is the staff's RAI. As discussed with your staff, we request that you provide your responses to this RAI by November 30, 2004, in order to support the early site permit review schedule. If you have any questions, please contact me at 301- 415-1108 or via e-mail at jhw1@nrc.gov.

Sincerely,
/RA/

James H. Wilson, Senior Project Manager
Environmental Section
License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket No.: 52-009
Enclosure: As stated
cc w/enclosure: See next page

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DATE	10/28/04	10/28/04	10/28/04	10/28/04	10/28/04

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**Second Supplemental Request for Additional Information Regarding
The System Energy Resources, Inc. Early Site Permit Application
For the Grand Gulf ESP Site**

Section number 5.7 refers to the applicant's environmental report (ER) for the early site permit (ESP).

Section 5.7 Uranium Fuel Cycle Impacts

E5.7-1

As indicated in 10 CFR 51.51(a), the uranium fuel cycle environmental data for light-water reactors included in an applicant's environmental report shall be based on Table S-3. While the technical bases for Table S-3 are well established, the radiological effluents for two gases (i.e., radon-222 and technetium-99) are not resolved in Table S-3. The effects of these gases are to be included in each ER. Provide a detailed analysis of the environmental effects of radon-222 and technetium-99 to complete the set of uranium fuel cycle environmental data for the Grand Gulf ESP site.

Grand Gulf Early Site Permit
Environmental Review

cc:

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